

CLAIMS

1. A wireless communication apparatus including voice transmission means characterized in that there is included a location position determination means adapted to output data which uniquely characterises a geographic 5 location of the apparatus, and means adapted upon an initiation of a close of a voice transmission from said apparatus to effect transmission of data arising from the position determination means whereby such data can effect an identification of the said location which can be interpreted by further receiving means.
- 10 2. A wireless communication apparatus as in claim 1 further characterized in that there are means to receive and store said output data from the position determination means in digital form.
- 15 3. The wireless communication apparatus of claim 1 further including means to detect an initiation of the close of a transmission and to then effect a maintenance of any transmission status either until the output data is transmitted or for a sufficient time to allow for the output data to be transmitted.
- 20 4. The wireless communication apparatus of any one of the preceding claims wherein the initiation of the close of a transmission is by release of a transmit button.
5. The wireless communication apparatus of any one of the preceding claims further including means to receive data indicating the geographic location of a further such apparatus.
- 25 6. The wireless communication apparatus of claim 5 further including means to recognise the receipt of geographic location data and means to identify the identity of the source of such data, means to interpret the data to provide location information and the time of transmission and means to transfer such information to a display means.
7. The wireless communication apparatus of claim 5 wherein the display 30 means is an electronic means to which data is transferred digitally.

8. The wireless communication apparatus of claim 5 wherein the display means is a manual means to which data is transferred manually.
9. The wireless communication apparatus of any one of the preceding claims wherein the data transmission is through frequency shift keying
- 5 10. A network for transmission of wireless signals with capacity to send digital data, characterized in that there is at least one first station and at least one second station, the said first station having means to receive and store useful data from a positioning determination source in digital form and being adapted upon an initiation of a close of a transmission to effect transmission of the data to the other station.
- 10 11. The network of claim 10 further including means with or within the first station to detect an initiation of the close of a transmission and then effect a maintenance of any transmission status either until further data is transmitted or for a sufficient time to allow for the further data to be transmitted.
- 15 12. The network of any one of the preceding claims 10 or 11 wherein the second station is a base station, adapted to receive the data transmitted by one or more such first stations.
13. The network of any one of the preceding claims 10, 11 or 12 wherein the second station includes means to recognize the receipt of the data and include means to identify the identity of the source of such data, the location information and the time of transmission and means to transfer such data to a display means.
- 20 14. A wireless network including at least two stations, at least one of which is mobile, global positioning means within the mobile station adapted to provide global positioning data of its position to the mobile station characterized in that the mobile station includes means to initiate transmission from the mobile station to a further station, and there are means upon a detection of initiation of conclusion of a transmission from the mobile station to the other station to cause a transmission of sufficient data from the mobile station to the other station for the global positioning data of the mobile station to be recorded at the other station.
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15. A wireless network as in claim 10 wherein the data transmission further includes modem synchronizing information transmitted prior to payload data transmission and the payload data itself includes an identification of the source, and global positioning data

5 16. A wireless data and audio communication network including at least one base station and at least one mobile station, global positioning system means with or within the mobile station arranged to provide global positioning data of its position to the mobile station in an electronic form characterized in that the mobile station includes switch means to commence and cease a transmission connection from the mobile station to the base station, and means upon the switch means effecting a commencement of a ceasing of a transmission connection from the mobile station to the base station being detected, adapted to cause a transmission of sufficient data and other signals including data from the global positioning system to the base station for the then position of the mobile station to be transmitted to and be recordable at the base station.

10 15 17. A wireless data and audio communication network of claim x wherein upon a transmission initiation switch being opened there are means which are adapted to time a delay in closing down of transmission for a sufficient period to allow for the positioning data to then be transmitted.

20 18. A wireless data and audio communication network of claim 10 or claim 11 wherein the network is further characterized in that an opening of the transmit connect switch to effect a ceasing of transmission effects a data transfer from the mobile station of the positioning data together with a modem set up synchronizing data sequence for the base station.

25 19. A wireless network base station adapted to receive, during termination of a signal being received from a mobile station, data identifying the location of the mobile station.

30 20. A method of establishing and monitoring of a location of a mobile wireless transmission station from another location, the method including the steps of effecting transmission of position data from the mobile station upon initiation of termination of a transmission connection with a receiving station.

21. A method of monitoring the location of at least one mobile wireless transmission station from another location which includes the steps of initiating a transmit of location data from the mobile wireless transmission station location upon an initiation of a to close transmission switch being effected and where the receiving station is adapted to receive and identify such received data as interpretable data as distinct from any verbal communications.

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22. A wireless network arrangement substantially as described with respect to any one of the embodiments in the specification with reference to and as illustrated by the accompanying illustrations with respect to that embodiment.

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